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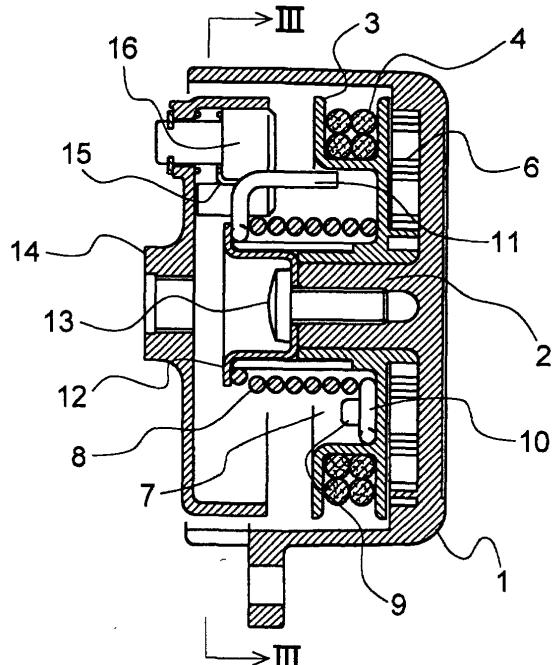
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### (54) Recoil starter

(57) A recoil starter capable of starting an engine easily has a reduced number of components and a simple structure, and enables miniaturization and a cost reduction. A damper spring (8) having one end thereof fixed to a reel (3) and provided at the other end thereof with an operation section (11) is arranged in such a manner that the operation section (11) thereof is engageable with a centrifugal ratchet (16) provided on a rotating member (14) of the engine, so that a shock caused by the engine is absorbed by the damper spring (8) and a rotating force from the reel (3) is stored therein.

FIG. 2





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## EUROPEAN SEARCH REPORT

Application Number  
EP 02 02 5032

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)						
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim							
Y	US 4 922 868 A (OHKANDA MASA0) 8 May 1990 (1990-05-08) * column 3, line 7-13; claim 1; figures 1,2 *	1-6	F02N3/02 F16F15/121						
Y	US 3 570 464 A (MORABIT VINCENT D ET AL) 16 March 1971 (1971-03-16) * figure 2 *	1-6							
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			TECHNICAL FIELDS SEARCHED (Int.Cl.7)						
			F16F						
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>MUNICH</td> <td>29 August 2003</td> <td>Ulivieri, E</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	MUNICH	29 August 2003	Ulivieri, E
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MUNICH	29 August 2003	Ulivieri, E							
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document							
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ON EUROPEAN PATENT APPLICATION NO.

EP 02 02 5032

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